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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Ann Marie Schmidt, et al.
U.S. Serial No.: 10/666,513
Filed : September 19, 2003
For : Extracellular RAGE Binding Protein (EN-RAGE) and Uses Thereof

1185 Avenue of the Americas
New York, New York 10036
January 6, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with the duty of disclosure under 37 C.F.R. §1.56, applicant directs the Examiner's attention to the following disclosures, which are listed on Form PTO-1449 (Exhibit A).

1. U.S. Patent No. 5,688,653, November 18, 1997 (Ulrich, et al.);
2. U.S. Patent No. 5,864,018, January 26, 1999 (Morser, et al.);
3. U.S. Patent No. 5,976,832, November 2, 1999 (Hitomi, et al.) (Exhibit 1);
4. Morser et al. PCT International Application No. PCT/EP97/01832, filed April 11, 1997, published October

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23 1997; Publication No. WO 97/39121, Advanced Glycation Endproduct Receptor Peptides and Uses Thereof;

5. Morser et al. PCT International Application No. PCT/EP97/01834, filed April 11, 1997, published October 23 1997; Publication No. WO 97/39125, Antibodies Against the Advanced Glycation Endproduct Receptor and Uses Thereof;
6. Baynes, J. W. (1991). Role of oxidative stress in development of complications in diabetes. Diabetes 40:405-412;
7. Borchelt, D. R., et al. (1996). Familial Alzheimer's Disease-linked presenilin 1 variants elevate A β 1-42/1-40 ratio *in vitro* and *in vivo*. Neuron 17: 1005-1013;
8. Brett, J., et al. (1993). Survey of the distribution of a newly characterized receptor for advanced glycation end products in tissues. Am. J. Pathol. 143(6):1699-1712;
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10. Cai, X-D., et al. (1993). Release of excess amyloid β protein from a mutant amyloid β protein precursor. Science 259: 514-516;
11. Citron, M., et al. (1997). Mutant presenilins of Alzheimer's Disease increase production of 42-residue amyloid β -protein in both transfected cells and transgenic mice. Nature Medicine 3(1): 67-72;

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15. Giardino, I., et al. (1994). Nonenzymatic glycosylation *in vitro* and in bovine endothelial cells alters basic fibroblast growth factor activity. J. Clin. Invest. 94: 110-117;
16. Gibbons, G. H. and V. J. Dzau. (1996). Molecular therapies for vascular diseases. Science 272: 689-693;
17. Hofmann, M. A., et al. (1999). RAGE mediates a novel proinflammatory axis: a central cell surface receptor for s100/calgranulin polypeptides. Cell 97:889-901 (**Exhibit 2**);
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21. Lander, H. M., et al. (1997). Activation of the receptor for advanced glycation end products triggers a p21^{ras} dependent mitogen-activated protein kinase pathway regulated by oxidant stress. J. Biol. Chem. 272: 17810-17814;
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44. Schmidt, A. M., et al. (1994). The endothelial cell binding site for advanced glycation end products consists of a complex: an integral membrane protein and a lactoferrin-like polypeptide. J. Biol. Chem. 269: 9882-9888;
45. Schmidt, A.M., et al. (1998). RAGE: a receptor with a taste for multiple ligands and varied pathophysiologic states. Hormones and Signaling 1:41-63 (**Exhibit 3**);
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implication of pentoses in the aging process. J. Biol. Chem. 264:21597-21602 (**Exhibit 4**);

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51. Vlassara, H., et al. (1994). Pathogenic effects of advanced glycosylation: biochemical, biologic, and clinical implications for diabetes and aging. Lab. Invest. 70: 138-151;
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57. Yan, S. D., et al. (1996). RAGE and amyloid- β peptide neurotoxicity in Alzheimer's disease. Nature 382: 685-691;
58. Yan, S. D., et al. (1997). Amyloid- β peptide-receptor for advanced glycation endproduct interaction elicits neuronal expression of macrophage-colony stimulating factor: a proinflammatory pathway in Alzheimer disease. Proc. Nat'l Acad. Sci. 94: 5296-5301.

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The subject application is a continuation of and claims the benefit under 35 U.S.C. §120 of U.S. Serial No. 09/167,705, filed October 6, 1998.

Above-listed references 1, 6-16, 19-33, 35-44, 47-51 and 53-58 were submitted to and considered by the United States Patent and Trademark Office in an Information Disclosure Statement filed in connection with U.S. Serial No. 09/167,705, filed October 6, 1998. Above-listed references 2, 18 and 34 were cited by the United States Patent and Trademark Office in an Office Action dated March 24, 1998 in connection with 09/167,705, filed October 6, 1998. Above-listed references 4 and 5 were submitted to and considered by the United States Patent and Trademark Office in a Supplemental Information Disclosure Statement filed on June 18, 2001 in connection with U.S. Serial No. 09/167,705, filed October 6, 1998. Accordingly, under 37 C.F.R. §1.98(d) copies of these references are not required to be provided to the United States Patent and Trademark Office, since they were previously submitted to or cited by the United States Patent and Trademark Office in an application relied upon for an earlier effective filing date under 35 U.S.C. §120. A copy of above-listed reference 3 is submitted herewith, as Exhibit 1, which was cited by the United States Patent and Trademark Office in an Office Action dated December 19, 2000 in connection with 09/263,312, filed March 5, 1999, now U.S. Patent No. 6,555,340 B1, issued April 29, 2003. A copy of above-listed reference 17 is submitted herewith, as Exhibit 2. Copies of above-listed references 45, 46 and 52 are submitted herewith, as Exhibits 3-5, respectively, which were submitted to and considered by the United States Patent and Trademark Office in

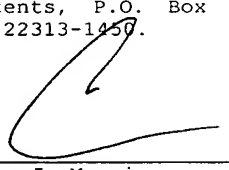
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an Information Disclosure Statement filed in connection with
U.S. Serial No. 09/826,589, filed April 5, 2001.

If a telephone interview would be of assistance in advancing
prosecution of the subject application, applicants'
undersigned attorney invites the Examiner to telephone him at
the number provided below.

No fee is deemed necessary in connection with the filing of
this Information Disclosure Statement. However, if any fee is
required authorization is hereby given to charge the amount of
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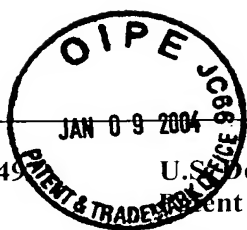
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575-55873-C/
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10/666,513Applicant(s)
Ann Marie Schmidt, et al.Filing Date
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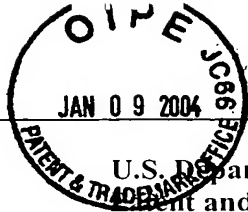
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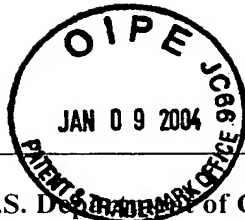
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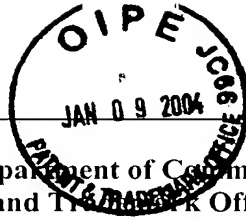
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